

From: Jay Smith
To: Justin Greuel
Subject: Re: GM Duramax
Date: 05/22/2012 10:50 AM
Attachments: Certification Decision DGMXE06.6590 Final JG -JDS.docx

Hello Justin,

I tried to address your comments. First, for the DEF quality inducement and why it is in miles (not time), here is a little background from GM:

"As a basis for time to mileage, we have agreement with CARB and EPA to equate using 50 mph. Additionally, the ramp on the fly methodology that GM uses was agreed that the detection to final inducement could include the 1 hour detection plus 4 hours to final as we do not require a variable safe harbor trigger (vehicle restarts, fuel refill, overlong idle etc). The inducement is finite at 250 miles. These discussions occurred over the past ~2 years. I can find some of these documents or can walk you through anything yof which you would like to have a deeper dive. This ramp-on-the-fly was introduced in 2012 and is virtually carryover for 2013 (except that we now turn on the hazard lights when decelerating from 55 mph to 4 mph. "

If you'd like me to follow up and get more information on this previous approval, just let me know.

Deliberative Process / Ex. 5

Thanks,
Jay



James D. Smith, Ph.D.
Mechanical Engineer
Compliance Division
Office of Transportation & Air Quality
US Environmental Protection Agency
2000 Traverwood Dr.
Ann Arbor, MI 48105

Office Phone: 734-214-4302

▼ Justin Greuel---05/16/2012 09:39:07 AM---Jay, Overall, this looks very good. Had a few minor edits and questions. See the attached.

From: Justin Greuel/DC/USEPA/US
To: Jay Smith/AA/USEPA/US@EPA
Cc: Gregory Orehowsky/DC/USEPA/US@EPA
Date: 05/16/2012 09:39 AM
Subject: Re: GM Duramax

Jay,

Overall, this looks very good. Had a few minor edits and questions. See the attached.

[attachment "Certification Decision_DGMXE06.6590 Final_JG.docx" deleted by Jay Smith/AA/USEPA/US]

Thanks,

Justin

▼ Jay Smith---05/16/2012 08:12:44 AM---Hello Justin, Did you have any comments on this? I made some minor changes based on Michael Horowitz

From: Jay Smith/AA/USEPA/US
To: Justin Greuel/DC/USEPA/US@EPA
Date: 05/16/2012 08:12 AM
Subject: Re: GM Duramax

Hello Justin,

Did you have any comments on this? I made some minor changes based on Michael Horowitz's feedback and we're ok from his perspective.

Thanks,

Jay

[attachment "Certification Decision_DGMXE06.6590 Final.docx" deleted by Justin Greuel/DC/USEPA/US]

James D. Smith, Ph.D.
Mechanical Engineer
Compliance Division
Office of Transportation & Air Quality
US Environmental Protection Agency
2000 Traverwood Dr.
Ann Arbor, MI 48105

Office Phone: 734-214-4302

▼ Justin Greuel---05/11/2012 04:31:23 PM---Jay, I'll take a look at this. In the meantime, you may also want to share a copy with Michael Horowitz

From: Justin Greuel/DC/USEPA/US
To: Jay Smith/AA/USEPA/US@EPA
Date: 05/11/2012 04:31 PM
Subject: Re: GM Duramax

Jay,

I'll take a look at this. In the meantime, you may also want to share a copy with Michael Horowitz for review. He's traditionally reviewed and commented on our SCR engine family decision documents.

Thanks,

Justin

▼ Jay Smith---05/11/2012 03:12:17 PM---I've completed the review of GMs Duramax engine family and wanted to check in with you before I clear

From: Jay Smith/AA/USEPA/US
To: Justin Greuel/DC/USEPA/US@EPA
Cc: Gregory Orehowsky/DC/USEPA/US@EPA
Date: 05/11/2012 03:12 PM
Subject: GM Duramax

I've completed the review of GMs Duramax engine family and wanted to check in with you before I clear it for cert, since its the first 2013 on-highway CI engine I've reviewed. This is a carry-over family and the most major change is that they've raised their NOx FEL from 0.42 to 0.50, which allows:

CBI / Ex. 4		CBI / Ex. 4
CBI / Ex. 4		They plan to maintain this
CBI / Ex. 4		

The decision document is attached below. Please let me know if you see any concerns.

Thanks,
Jay

[attachment "Certification Decision_DGMXE06.0584.docx" deleted by Justin Greuel/DC/USEPA/US]

James D. Smith, Ph.D.
Mechanical Engineer

Compliance Division
Office of Transportation & Air Quality
US Environmental Protection Agency
2000 Traverwood Dr.
Ann Arbor, MI 48105

Office Phone: 734-214-4302